

14) すきやくじゃく *Adiantum diaphanum* BL. 臺灣ニアル。熱帯アジア、ポリネシア、オーストラリア、ニュージーランドニ廣ク分布シテキル。

15) あらびくじゃく *Adiantum pubescens* SCHKUHR *A. hispidulum* auct. 臺灣ニアル。舊世界ノ熱帯ニ廣ク分布シテキルト思ハレル。*A. pubescens* SCHKUHR ト *A. hispidulum* Sw. トハ今日マデ區別シナカッタガ、最近 CHRISTENSEN 氏ハコノニツラ區別シテキル。氏ノ分類ニ從ヘバあらびくじゃくハ *A. pubescens* SCHKUHR ニナル。

## Notes on Japanese Musci (II)

By

Akira NOGUCHI

野口 彰：日本産蘚類ノ研究（其二）

### 8) *Ditrichum formosicum* NOGUCHI, sp. nov. (Fig. 6)

Autoicum. Planta mollis, lutescenti-viridis, inferne -fusca, dense caespitosa. Caulis erectus, simplex raro dichotomus, sicco  $\pm$  flexuosus, ca 2 cm. longus vel longior, remote foliosus. Folia sicca laxa flexuoso-adpressa, madida erecto-patentia, inferiora minora, superiora sensim majora, canaliculato-concava, e basi ovato-oblonga vel breviter oblonga sat subito longissime subulatum, flexuosum, apice minute et parce denticulatum constricta, ca 5–7 mm longa, costa valida, basi ca 0.12 mm lata, cellulis laminaribus anguste rectangularibus, medio 22–30  $\times$  3–4  $\mu$ , inferioribus majoribus. Bractea perichætii internæ foliis similes sed longiores ad 9 mm longæ. Seta valde tenuis, flexuosa, lutescens vel lutescenti-fusca, laevis, ca 2.5–4.5 mm longa, ca 0.12 mm lata. Theca inclinata, asymmetrico-cylindrica, curvatula, fusca, ca 3 mm longa et 0.6 mm lata. Peristomium fusco-rubrum, dentibus filiformibus, contortis, dense et alte papillois. Sporæ oblongæ vel pyramidales, dense papilloas, ca 14–17  $\mu$  in diam.

Hab. On ground.

Loc. Formosa: Mt. Taihei (Mururoau—Tamonkei), prov. Taihoku (A. NOGUCHI, no. 6647 -type, in Herb. Hiros. Univ., Aug. 1932); Mt. Kodama, prov. Tainan (A. NOGUCHI, Aug. 1932); Mt. Arisan (Numanohira), prov. Tai-

nan (A. NOGUCHI, July 1928 & Aug. 1932).

The present species is most allied to *D. flexifolium* HAMP. but is distinguished from it by the taller stem, the longer seta and the wider leaves.

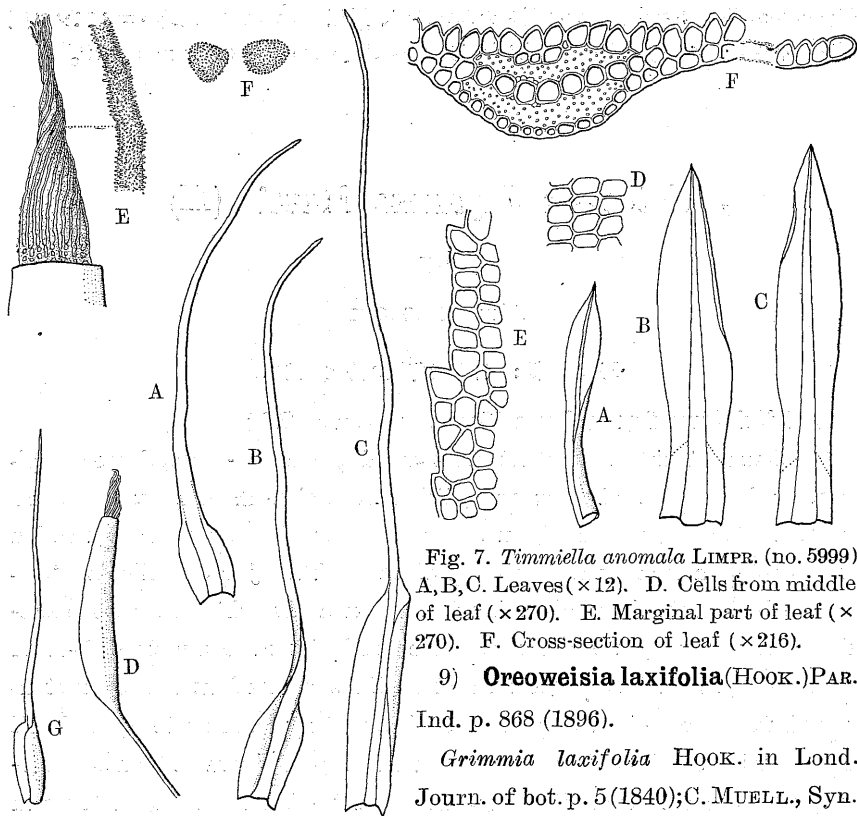


Fig. 7. *Timmiella anomala* LIMPR. (no. 5999)  
A, B, C. Leaves ( $\times 12$ ). D. Cells from middle  
of leaf ( $\times 270$ ). E. Marginal part of leaf ( $\times$   
 $270$ ). F. Cross-section of leaf ( $\times 216$ ).

9) **Oreoweisia laxifolia** (HOOK.) PAR.

Ind. p. 868 (1896).

*Grimmia laxifolia* HOOK. in Lond.  
Journ. of bot. p. 5 (1840); C. MUELL., Syn.  
I, p. 783 (1849).

Fig. 6. *Ditrichum formosicum* NOGUCHI  
A, B. Leaves ( $\times 16$ ). C. Inner perichaetial  
bract ( $\times 16$ ). D. Capsule ( $\times 8$ ). E.  
Peristome ( $\times 42$ ). F. Spores ( $\times 360$ ).  
G. Perigonal leaf ( $\times 16$ ).

*Didymodon laxifolius* MITT. Muse.  
Ind. Or. p. 28 (1859).

Loc. Formosa: Mt. Arisan (Numano-  
hira), prov. Tainan (A. NOGUCHI, July 1928); Tataka-Niitakasita, prov. Tai-  
nan (A. NOGUCHI, Aug. 1932).

Distr. Himalaya, Yunnan, etc.

The genus *Oreoweisia* is new to Japan.

10) **Dicranum elatum** LINDB. Adnot. bryol. et M. Scand. p. 24 (1879); ROTH, Eur. Laubm. I, p. 221 (1904).

*D. robustum* BLYTT in Bryol. eur. fasc. 37-40, Mon. p. 43, t. 84 (1847); BROTH., Laubm. Fenn. p. 105 (1923).

Loc. Saghalien: Siska (Leg. ? Aug. 1931, ex Herb. Kyûsyû, Imp. Univ.).

Distr. N. Eur.

This species is new to Japan.

11) **Timmiella anomala** (Bryol. eur.) LIMPR., Laubm. Deutsch. I, p. 590 (1888); ROTH, Eur. Laubm. I, 320 (1904). (Fig. 7)

*Barbula anomala* Bryol. eur. fasc. 13-15, Mon. p. 45, t. 109 (1942); C. MUELL., Syn. I, p. 603 (1849).

*Tortula anomala* MITT., Muse. Ind. Or. p. 28 (1859).

Hab. On ground.

Loc. Formosa: Mt. Kodama, prov. Tainan (A. NOGUCHI, no. 5999, Aug. 1932).

Distr. Himalaya, Florida, Calif. Mex., etc.

The genus *Timmiella* is new to Japan.

12) **Anomobryum Yasudae** BROTH. in Oever. av Finsk. Vet.-Soc. Forh. LXII, p. 16 (1919-20). (Fig. 8)

Bracteae perichætii internæ triangulato-lanceolatæ, ca 1.5 mm longæ, 0.6 mm latæ, concavæ, marginibus subintegerrimis, costa continua. Seta rufescentifusca, laevis, ca 3.5 mm longa, 0.26 mm crassa. Theca nutans vel subnutans, anguste oblonga, sicca constricta, ca 3 mm longa, 1.3 mm crassa. Operculum alte convexum apiculatum, ca 0.6 mm altum. Peristomium duplex, exostomii dentes lanceolati, lutei, densissime et minutissime papilloso, superne ± hyalini, dense papilloso, ca 0.7 mm alti, endostomium lutescens, densissime et minutissime papillosum, membrana altissima, processus late lanceolati, carinati, perforati, cilia 2-3 raro 1, altissime nodulosa. Sporæ globosæ, minute papillosæ, ca 12  $\mu$  in diam.

Hab. Almost submerged.

Loc. Formosa: Rakuraku, prov. Taityû (A. NOGUCHI, no. 6678, Aug. 1932).

Distr. Japan Prop.

Though the Formosan moss agrees with the one of Japan Proper in many respects but is larger. The present species is new to Formosa.

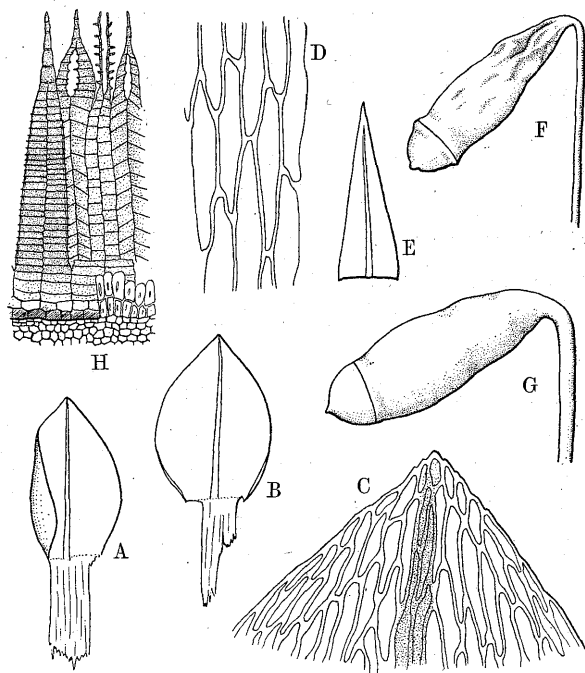


Fig. 8. *Anomobryum Yasudae* BROTH. (no. 6678)

A, B. Leaves ( $\times 16$ ). C. Apical part of leaf ( $\times 216$ ). D. Cells from middle of leaf ( $\times 216$ ). E. Inner perichaetial bract ( $\times 16$ ). F. Capsule when dry ( $\times 8$ ). G. Ditto, when moist, ( $\times 8$ ). H. Peristome ( $\times 54$ ).

13) ***Bartramia alpicola*** NOGUCHI, sp. nov. (Fig. 9)

Planta medioeris, 2-3 mm alta,  $\pm$  mollis, fusco-viridis, superne lutescenti-viridis. Caulis dense foliosus, inferne fusco-tomentosus. Folia sicca crispato-adpressa, madida erecto-patentia, e basi oblonga sensim canaliculato-concavum longissime lineari-subulatum producta, ad 7 mm longa, ad 7 mm longa, marginibus arete denticulatis, dentibus acutioribus, geminatis, medio recurvis, caeteris erectis, costa valida, apice percurrente, dorso arete denticulata, cellulis laminaribus plerumque quadratis vel breviter rectangularibus, parietibus tenuibus, mediis ca  $6-9 \times 5.5-8 \mu$ , mamillatis, hyalinis, inferioribus laevibus

bus, linearibus vel longissime rectangularibus, parietibus tenuibus. Bracteæ perichætii internæ e basi ovato-oblonga raptim in acumen longissime lineares, concavæ, ad 2.8 mm longæ, marginibus integerrimis, superioribus crenulatis, costa  $\pm$  percurrente. Seta erecta, curvatula, laevis, 1.7–2.0 mm longa, 0.25 mm crassa. Theca paulum inclinata, globosa, symmetrica, rufescenti-fusca, ca 1.6 mm in diam. Operculum humiliter conica, apice rotundato-obtusum. Peristomium duplex, exostomii dentes lanceolati, ca 0.45 mm longi, lutescenti-fusci, densissime et minutissime papilloso, lamellis ca 20, endostomium rigi-

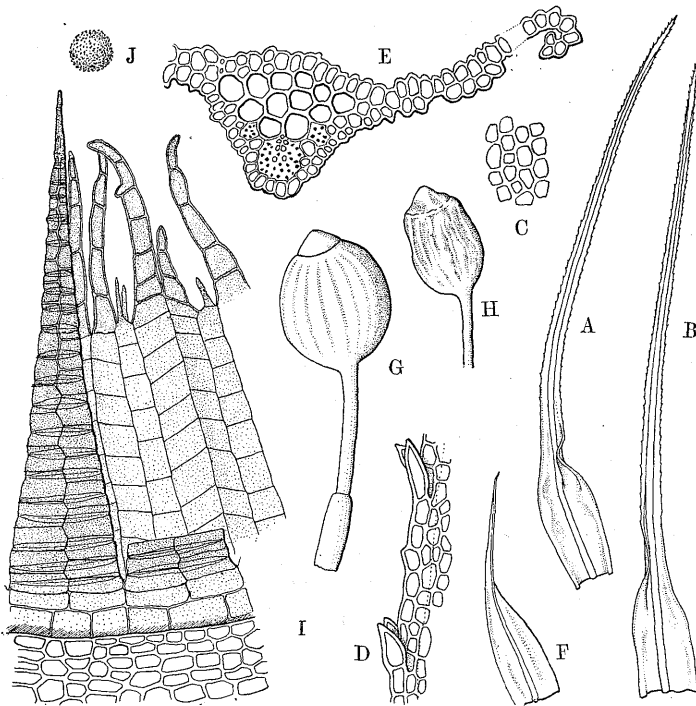


Fig. 9. *Bartramia alpicola* NOGUCHI

A, B. Leaves ( $\times 12$ ). C. Cells from middle of leaf ( $\times 270$ ). D. Marginal part of leaf ( $\times 270$ ). E. Cross-section of leaf ( $\times 216$ ). F. Inner perichaetial bract ( $\times 12$ ). G. Capsule, when moist ( $\times 8$ ). H. Ditto, when dry ( $\times 8$ ). I. Peristome ( $\times 160$ ). J. Spore ( $\times 270$ ).

dum, lutescens, ca 0.38 mm longum, membrana parce papillosa, ca 0.25 mm alta, processus divisi, dense papilloso, cilia brevissima, 1–2. Sporæ subglobosæ vel ovatæ, minute papilosæ, 17–22  $\mu$  in diam.

Hab. On ground.

Loc. Formosa: Tâtake-Niitakasita, prov. Tainan (A. NOGUCHI, no. 6667-type, in Herb. Hiros. Univ., Aug. 1932).

The present species resembles *B. norvegica* LINDB. in some respects but is notably different in the more soft and tender plant, the wider leaves, the different areolation of leaves, the shorter seta and the different shaped lid.

14) ***Bartramia morrisonensis*** NOGUCHI, sp. nov. (Fig. 10)

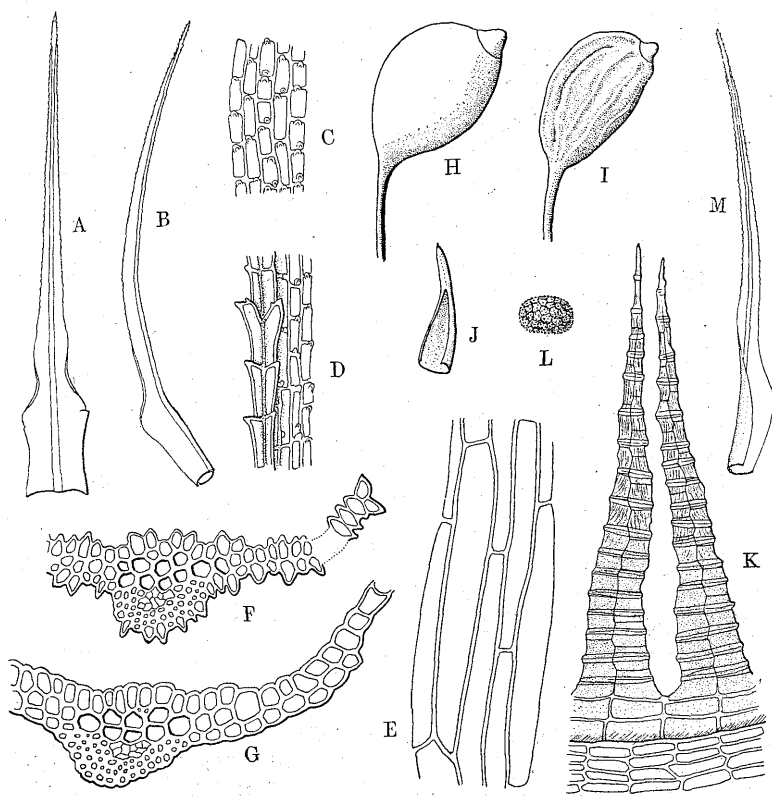


Fig. 10. *Bartramia morrisonensis* NOGUCHI

A, B. Leaves, dorsal ( $\times 12$ ). C. Cells from middle of leaf ( $\times 270$ ). D. Marginal part of leaf ( $\times 270$ ). E. Cells from basal part of leaf ( $\times 270$ ). F. Cross-section of leaf, middle part of leaf ( $\times 216$ ). G. Ditto, basal part of leaf ( $\times 216$ ). H. Capsule, when moist ( $\times 8$ ). I. Ditto, when dry ( $\times 8$ ). J. Calyptra ( $\times 8$ ). K. Peristome ( $\times 216$ ). L. Spore ( $\times 270$ ). M. Perigonal leaf ( $\times 12$ ).

**Autoica.** Planta lutescenti-viridis, dense caespitosa. Caulis humilis, ca 1-1.5 cm longus, dichotomus vel simplex, dense foliosus, inferne fusco-tomentosus. Folia sicca laxè adpressa et flexuosa, madida erecto-patentia,  $\pm$  arcuato-recurva, ad 5 mm longa, e basi vaginante raptim longissime lanceolato-subulatam constricta, canaliculato-concava, marginibus medio  $\pm$  recurvis, superne arcuè serratis, dentibus geminatis, inferne integerrimis, costa valida, excurrente, dorso dense et alte papillosa, cellulis laminaribus pellucidis, rectangularibus, parietibus  $\pm$  crassis, transversis prominentibus, utrinque alte mamillosis, mediis 14-20 (plerumque 15)  $\times$  4.5-5.5  $\mu$  in diam., inferioribus pellucidis, valde latis, parietibus tenuibus, laevibus, 90-130  $\times$  10-15  $\mu$ . Bractea perichæti interæ foliis similes, ad 4 mm longæ. Seta rufescenti-fusca, lævis, curvatula, ca 1.5 cm longa, 0.17 mm lata. Theca inclinata, ovato-oblonga, assymetrica, fusca, ca 2  $\times$  1.7 mm, sicca longitudinaliter plicata. Opereculum humiliter conica, apice obtusa. Calyptra cucullata, ca 2.2 mm longa. Peristomium simplex, exostomii dentes irregulariter lineari-lanceolati, ca 0.45 mm longi, inferne lutescenti-fusci, minutissime et densissime papilloso, superne lutescentes, longitudinaliter vel oblique striolati, apice hyalini. Sporæ fuscae, ovatae vel nephroideæ, minute papilloso, 22-30  $\mu$  in diam. Folia perigonia foliis caulinis similia.

**Hab.** On the sandy soil.

**Loc.** Formosa: Mt. Arisan (Numanohira), prov. Tainan (A. NOGUCHI, July 1928); Mt. Rokurin, prov. Tainan (A. NOGUCHI, no. 7147-type, in Herb. Hiros. Univ., Aug. 1932); Tataka-Niitakasita, prov. Tainan (A. NOGUCHI, Aug. 1932).

Although this species is allied to *B. flavicans* MITT. in several respects, it is perfectly distinct in the shape of capsule. This is also separable from *B. leptodonta* WILLIS. and *B. Schmidiana* C. MUELL. by the inclined and deeply plicate capsule when dry.

15) **Bartramia Wilsoni** Bryol. eur., fasc. 29-30, t. 327 (1846). (Fig. 11)

*Bartramia Wilsoni* C. MUELL. Syn. I, p. 479 (1849).

**Loc.** Formosa: Mt. Kodama, prov. Tainan (A. NOGUCHI, Aug. 1932); Tataka-Niitakasita, prov. Tainan (A. NOGUCHI, no. 6319, Aug. 1932).

Distr. Yunnan, Eur.

The genus *Bartramidula* is new to Japan.

16) **Bartramidula Roylei** Bryol. eur., fasc. 12, Mon. p. 2 (1842). (Fig. 11)

*Bartramia Roylei* C. MUELL. Syn. I, p. 478 (1849).

Loc. Formosa: Mt. Kodama, prov. Tainan (A. MOGUCHI, no. 7155 b, Aug. 1932).

Distr. Himalaya, Nilgh.

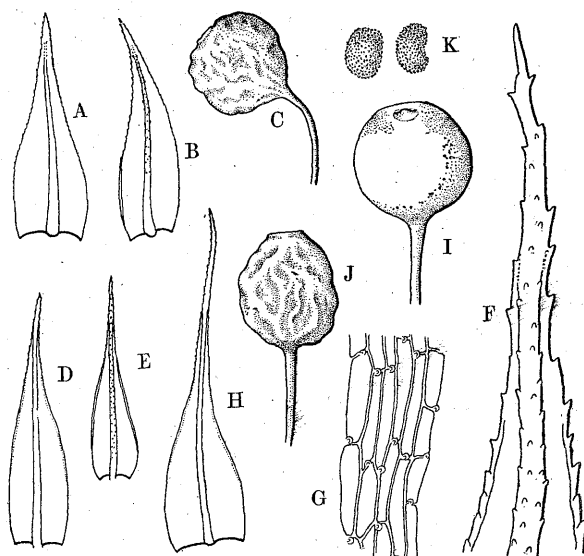


Fig. 11. A-C *Bartramidula Wilsoni* C. MUELL. (no. 6319)  
D-K *B. Roylei* Br. eur. (no. 7155 b)

A, D. Stem-leaves ( $\times 26$ ). B, E. Branch-leaves dorsal ( $\times 26$ ). C, J. Capsule, when dry ( $\times 8$ ). F. Apical part of leaf dorsal ( $\times 1444$ ). G. Cells from middle of leaf ( $\times 270$ ). H. Inner perichaetial bract ( $\times 26$ ). I. Capsule, when moist ( $\times 8$ ). K. Spores ( $\times 270$ ).

17) **Philonotis longicollis** (HPE) MITT., Musc. Ind. Or. p. 64 (1859); Bryol. jav. p. 159, t. 129 (1861); FLEISCH. Musc. d. Fl. v. Buit. II, p. 626 (1902-04).

*Tartramia longicollis* HPE, C. MUELL. Syn. I, p. 478 (1949).

Loc. Formosa: Mt. Taihei (Toganowo), prov. Taihoku (A. NOGUCHI, Aug.



1932); Mt. Arisan (Numanohira), prov. Tainan (A. NOGUCHI, Aug. 1932).

Distr. Java, Sikkim-Himalaya.

The present species is new to Formosa.

(to be continued)

## 摘 要

8) *Ditrichum formosicum* NOGUCHI 阿里山ノ沼ノ平ヤ太平山等ニ普通ニ見ラレルきんしごけノ一種ニ阿弗利加、東印度諸島、オーストラシヤ、南米等ノ熱帶或ハ亞熱帶地方ニ廣ク分布スル *D. flexifolium* HAMP. ニヨク似タ種類ガアル。之ヲヨク調べテミルト同一種デハナク莖、蒴柄共ニ遙ニ長ク (*D. flexifolium* デハ莖 0.5 cm 蒴柄 1 cm 位) 葉ハモット廣ク、蒴ノ形モ異リ別種トシテ區別サルベキモノナノデ新種ト考ヘ上記ノ學名ヲ與ヘタ。

9) *Oreoweisia laxifolia* PAR. 阿里山沼ノ平附近ニ多クテ外觀ハ Pottiaceae ノ一種ト思ハレルモノヲ採集シテキタガ鏡檢シテミルト上記ノ學名ノモノニ相當スル。之ヲ外國産ノ標品ト比較シテミテモ餘リ差ガナイ。コノ屬ハ本邦ノモスフロラニ新シク加ヘラルベキモノデアル。

10) *Dicranum elatum* LINDB. 本蘚ハ *Dicranum* 屬ノ中デモ一風變ツタモノデ葉ガ比較的軟ク乾燥スレバ内曲スルノデ肉眼デモ本種デアル事ガワカル。ノルウエ産ノ標品ト比較シテミルト樺太産ノモノハ稍壯大デアルガ他ニ區別スベキ點ハ見當ラヌ。本種ノ分布ハ北歐ノ一部ニ限ラレテキタガ今本邦ニ新シク數香ノ九大演習林カラ採取サレタノハ分布上注目ニ値スル。

11) *Timmiella anomala* LIMPR. 本種ハ阿里山沼ノ平カラ兒玉山ニ這入ル入口デ採取シタモノデ鏡檢シテミルト葉片ノ細胞ハ二層ニナツテキテ而モ腹面ノ細胞ハ著ルシイ乳頭ニナツテキル。之ハ本邦デハ未ダ記録サレテキナイ *Timmiella* 屬ノモノデ且ツ上記ノ學名ヲ有スルモノデアル。

12) *Anomobryum Yasudæ* BROTH. 本種ハ内地特産ノ蘚類デ筆者ノ知レルトコロデハ從來上野ト越中トガソノ產地デアツテ稀ナ種類デアル。筆者ガ新高山ノ八道關カラ東埔ニ到ル途中ノ樂々附近ノ溪流中デ半分水ニ浸ツテキタノヲ採取シタ *Anomobryum* 屬ノ一種ハ上記ノ *Yasudæ* ニ比較シテ稍大キイヤウデハアルガ別ニ區別スベキ要點ヲ見出し得ナイノデ同一種ト思ハレル。A. *Yasudæ* ノ從來採集サレタモノハ何レモ不實ノモノデ未ダ子嚢體ガ知ラレテキナイノデコ、ニ圖ヲ添ヘソノ記載ヲナシテオク。

13) *Bartramia alpicola* NOGUCHI 本種ハ *B. norvegica* LINDB. ニ近似ノ種類デアルガソレヨリモモット柔イ感ジヲ與ヘ、大キサモ小サク又蒴柄モ短クテ 2 mm ニ達スルノハ稀デ且ツ蒴蓋ノ形ガ異リ本種デハ圓頭圓錐形デ嘴出シテキナイノデ別種ト考ヘラレル。上記ノ如ク命名スル。産地ハタータカト新高下間。

14) *Bartramia morrisonensis* NOGUCHI 本種ノ外觀ハ *B. itchyphylla* BRID. ニ似テキルガ本種デハ蒴齒ガ單列デアルノデ直チニ區別サレル。又色々ノ性質カラミテニューグアナダ産ノ *B. flavicans* MITT. ニ最モ近イモノト思ハレルケレドモ分布上カラミテモ同一種トハ思ヘズ又蒴ノ形其他ニ於テ異ルノデ別種デアル。分布上カラミテ近縁ノモノヲ求メルトヒマラヤ方面ノ *B. leptodonta* WILIS. ト *B. Schmidiana*. C. MUELL. トデアルケレドモ之等カラハ蒴ガ傾キ且ツ乾燥スレバ強く皺ヨルノデ區別サレル。新種ト考ヘ上記ノ學名ヲ與ヘル。產地ハ阿里山沼ノ平、鹿林山、新高下方面デアル。

15, 16) *Bartramidula* 屬ノ蘚ハ *Philonotis* 屬ノ小サイモノノヤウデアルガ蒴ガ軟ク乾燥シタトキニダニ紙狀ニ皺ヨリ、蒴齒ヲ缺如スルカ或ハソノ發達ガ惡イノデ區別サレル。從來 *Bartramidula* 屬ノ蘚ハ本邦カラハ知ラレテキズ近接地方カラハ雲南・ヒマラヤ方面カラ二種ガ知ラレテキル。筆者ハ本屬ノモノヲ昭和7年8月ニ兒玉山ヤ新高下方面デ採集シテキタガ、タマタマ昨年 KABIERSCH 氏ガ東亞ノたまごけ科ヲ取扱ツタトキニ本屬ガ本邦ニ産スル事ヲ記シテキナイノニ刺戟サレテ採集品ヲ調査シテミルト、之ニ二種アルヲ知ツタ。一ハ蒴ガ傾キ葉ハ稍一方ニ偏シ葉ノ肋ハ突出シナイモノデ、之ハ *B. Wilsoni* Bryol. eur. ト同定スベキモノデアリ、他ハ蘚體ハ稍強壯デ葉ハ偏向セズ肋ハ著ルシク突出シ蒴ハ眞直ニ柄ニツク種類デ、之ハ *B. Roylei* Bryol. eur. デアル。

(17) *Philonotis longicollis* MITT. 本種ハ *Philonotis* デハ巨大ナ方デ蒴モ稍特異ナ形ヲナシテキルノデ別屬ニシテキル人モアル位デアル。今ハソノ別屬ニスル價值アルカ否カニハ全く觸レズ從來本種ガ本邦ニ産スル事ガハツキリワカツテキナカッタノデ臺灣ニハ確ニ産スル事ヲ記録スルニトドメル。太平山ノ梅ノ尾附近デハ本種ハ *Breutelia arundinifolia* FLEISCH. ト混生シテキル。(續ク)